

2033 Clement Ave., Suite 200
Alameda, CA 94501
Phone: 510 769-3510
Internet address: www.quinelaw.com
Fax: 510 337 7877 Email: jacqueline@quinelaw.com

**Quine Intellectual
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PERSONAL AND CONFIDENTIAL

To: Examiner Kagnew Gebreyesus From: Gary Baker

USPTO, Group 1656

Fax: 571 273-2937 and x8300 Date: August 13, 2008

Phone: Pages: 2

Re: USSN 10/569,656 our file: 54A-000510US

 Urgent For Review Please Comment Please Reply Please Recycle

Dear Examiner Gebreyesus,

Attached is a proposed amendment to Independent claim 1 for discussion in the above-cited case.

I note that the new limitations focus claim 1 on the invention taught and practiced. The percent identity and required G:C base pair at position 10:28 distinguish the composition and provide enabling structural/functional aspects in light of the original specification.

I have left a message on your phone requesting an interview in this case. Please grant the interview and let me know what would be a good time for you.

Thanks,

Gary Baker 510 769-3510

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Appl. No. : 10/563,656
Applicant : J. Christopher Anderson, et al.
Filed : June 22, 2006
TC/A.U. : 1656
Examiner : Kagnew H. Gebreyesus
Docket No. : 54A-000510US
Customer No. : 22798

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Amendment for Discussion in Interview

1. (Proposed amendment) A composition comprising an orthogonal glutamyl-tRNA (glutamyl O-tRNA) derived from one or more archaeal tRNAs, wherein the glutamyl O-tRNA comprises a polynucleotide sequence at least 80% identical to SEQ ID NO.: 67, and wherein the glutamyl O-tRNA comprises a G:C base pair at position corresponding to 10:28; and wherein the glutamyl O-tRNA suppresses in the presence of a glutamyl-tRNA synthetase derived from an RS selected from the group consisting of: an *Archaeoglobus fulgidus* synthetase, a *Methanosarcina mazei* synthetase, a *Methanobacterium thermoautotrophicum* synthetase, and a *Pyrococcus horikoshii* synthetase.

Dear Examiner Gebreyesus,

I believe the cited consensus O-tRNA Seq 67 ranges from about 92% to 97% identity (not counting the selector anticodon) with the tested functional O-tRNAs. G:C at 10:28 is a consensus structure for Gln O-tRNAs associated with functionally.

Gary

[Signature]